



Australian Government  
Department of Industry,  
Science and Resources

**National  
Measurement  
Institute**

36 Bradfield Road, West Lindfield NSW 2070

**Certificate of Approval**  
**NMI 6/4C/330**

Issued by the Chief Metrologist under Regulation 60  
of the  
*National Measurement Regulations 1999*

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

A&D Model FG-150KCL-WP Weighing Instrument

submitted by       A & D Australasia Pty Ltd  
                          32 Dew Street  
                          Thebarton   SA   5031

**NOTE:** This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated October 2015.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	25/10/23

## CONDITIONS OF APPROVAL


### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI 6/4C/330' and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate of Approval No S1/0B.

Signed by a person authorised by the Chief Metrologist  
to exercise their powers under Regulation 60 of the  
*National Measurement Regulations 1999.*




**Phillip Mitchell**  
A/g Manager  
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4C/330

**1. Description of Pattern**

**approved on 25/10/23**

The A&D model FG-150KCL-WP class  non-automatic single interval self-indicating non-automatic weighing instrument (Figure 1 and Table 1) of 150 kg maximum capacity with a verification scale interval of 0.05 kg and with a minimum capacity of 1 kg.

The instrument has the load receptor directly supported by a single load cell. The load receptor has a nominal dimension of 370 mm x 500 mm.

The instrument is fitted with one LCD display for display of the weight value.

Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless the maximum capacity of the instrument is greater than 100 kg (i.e. as may be the case for variant 1).

**1.1 Zero**

The initial zero-setting device has a nominal range of not more than 20% of the maximum capacity of the instrument.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

A zero-tracking device may be fitted.

**1.2 Tare**

A semi-automatic subtractive tare device of up to maximum capacity may be fitted.

**1.3 Power Supply**

The instrument is powered by a 5 V AC/DC mains adaptor.

Note: The AC/DC mains adaptor supplied was an AND model RHD20W050240A power supply (output 5 V DC, 2.4 A) – the submitter should be consulted regarding the acceptability of alternative power supply units.

**1.4 Display Check**

A display check is initiated whenever power is applied.

**1.5 Levelling**

The instrument is provided with adjustable feet and a level indicator.

The instrument is to be used in a level condition as indicated by the level indicator.

**1.6 Additional Features**

Instruments may be fitted with a number of additional functions including comparator (LO, OK and HI) and counting ('pcs'). The additional functions (other than the indications of measured mass, i.e. gross, tare, net, totals, displayed either on the indicator or on an auxiliary or peripheral device) are not approved for trade use.

**1.7 Interfaces**

The indicator may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document

NMI R 76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with NMI General Supplementary Certificate No S1/0B (in particular in regard to the data and its format).

Indications other than the indications of measured mass (i.e. gross, tare, net, totals) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.


Instruments may be fitted with Bluetooth interface.

## 1.8 Verification Provision

Provision is made for the application of a verification mark.

## 1.9 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	A & D Company Limited
Name or mark of manufacturer's agent	A & D Australasia Pty Ltd
Indication of accuracy class	
Pattern approval mark for the instrument	NMI 6/4C/330
Maximum capacity	Max ...../..... g or kg #
Minimum capacity	Min ..... g or kg #
Verification scale interval	e = ...../..... g or kg #
Serial number of the instrument	.....

# These markings are shown near the display of the result.

In addition, instruments shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording (see 1. *Description of Pattern* above).

## 1.10 Sealing Provision

Provision is made for access to the calibration switch be sealed by means of lead and wire type (or similar) seal as shown in Figure 2a or destructible adhesive labels placed over the switch cover as shown in Figure 2b.

## 1.11 Software

The software version is designated P-1.xx, where 'xx' represents the identification of non-legally relevant software.

The software version and number can be accessed by holding down the 'TARE' key and then pressing the 'ON/OFF' key.

## 2. Description of Variant 1

**approved on 25/10/23**

The A&D model FG-CWP series single interval instruments in certain capacities as listed in Table 1 (the pattern is shown in **bold**).

TABLE 1

Model Number	Maximum Capacity ( <i>Max</i> )	Minimum Capacity ( <i>Min</i> )	Verification Scale Interval ( <i>e</i> )	Platform Size (mm x mm)
FG-30KCM-WP	30 kg	0.2 kg	0.01 kg	300 x 380
FG-60KCL-WP	60 kg	0.4 kg	0.02 kg	370 x 500
<b>FG-150KCL-WP</b>	<b>150 kg</b>	<b>1 kg</b>	<b>0.05 kg</b>	<b>370 x 500</b>

TEST PROCEDURE No 6/4C/330

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

**Maximum Permissible Errors**

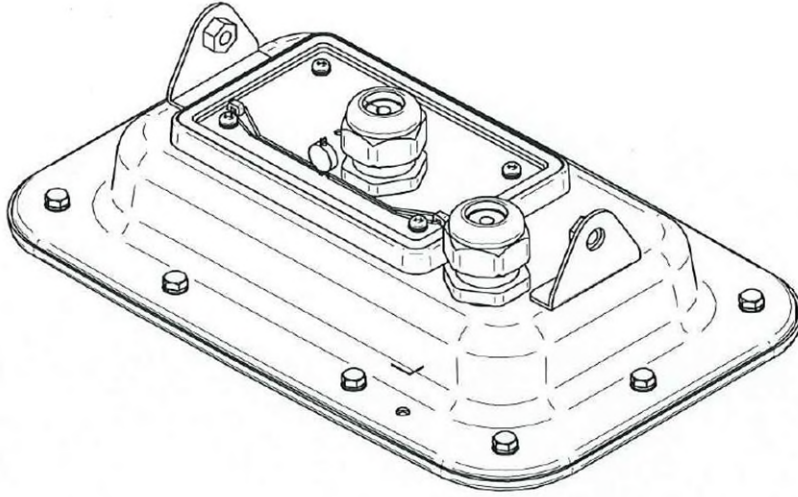
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/4C/330 – 1

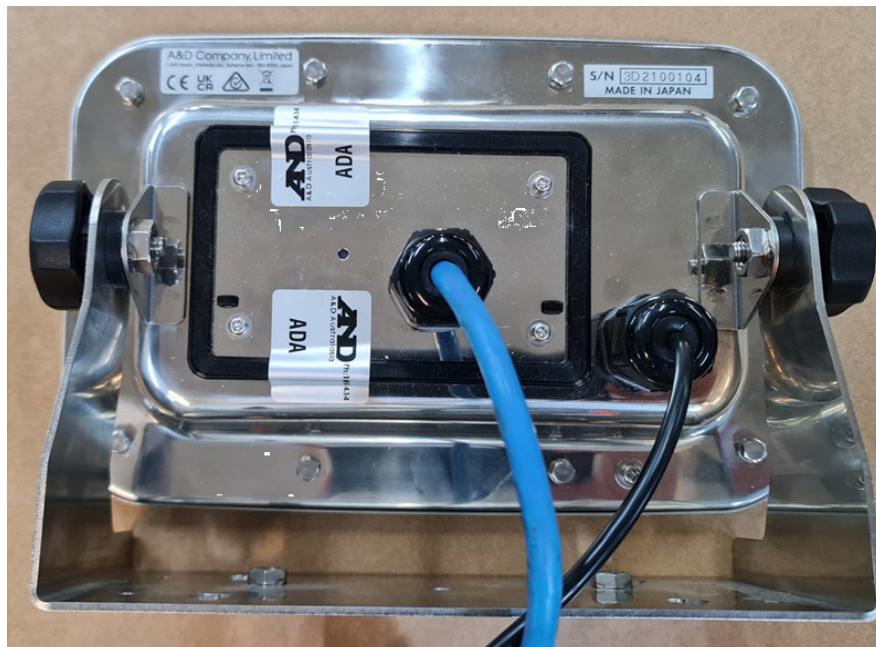


A&D Model FG-CWP Weighing Instrument

FIGURE 6/4C/330 – 2



(a) Sealing of Lead and Wire Type



(b) Sealing of Destructible Adhesive Labels

Typical Sealing Arrangement

~ End of Document ~